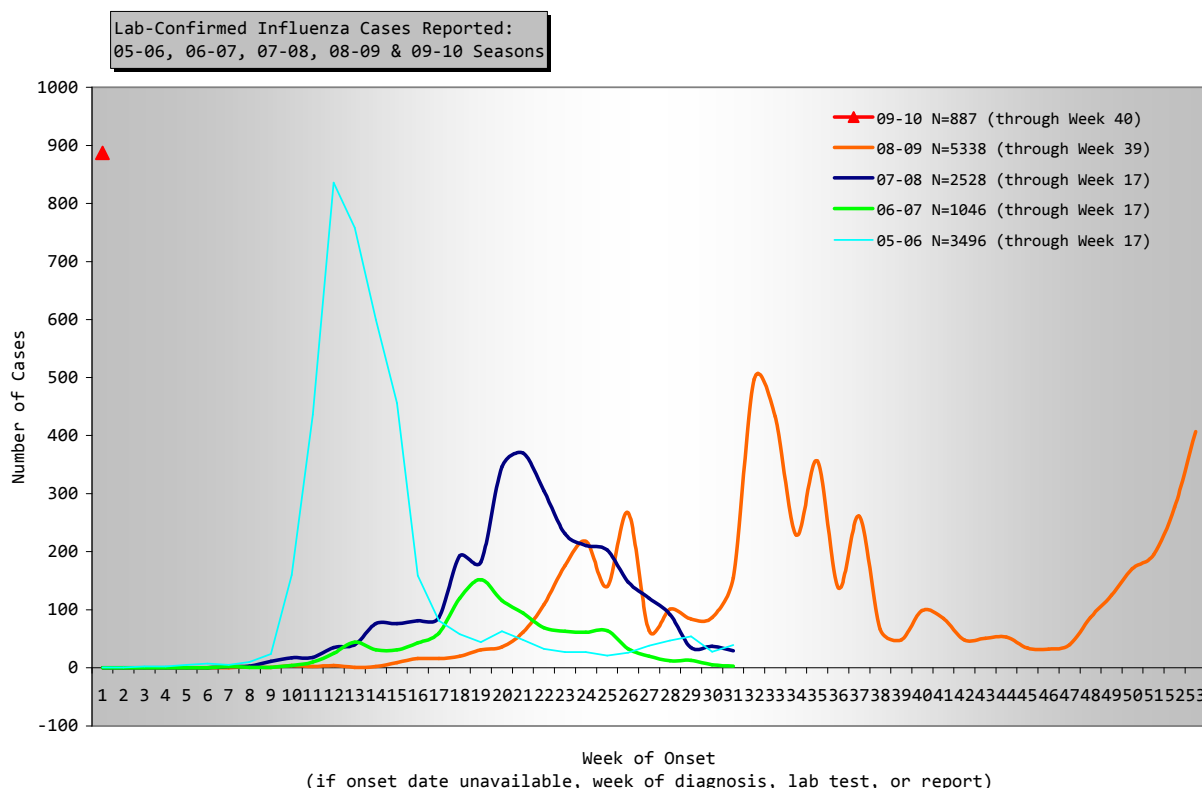
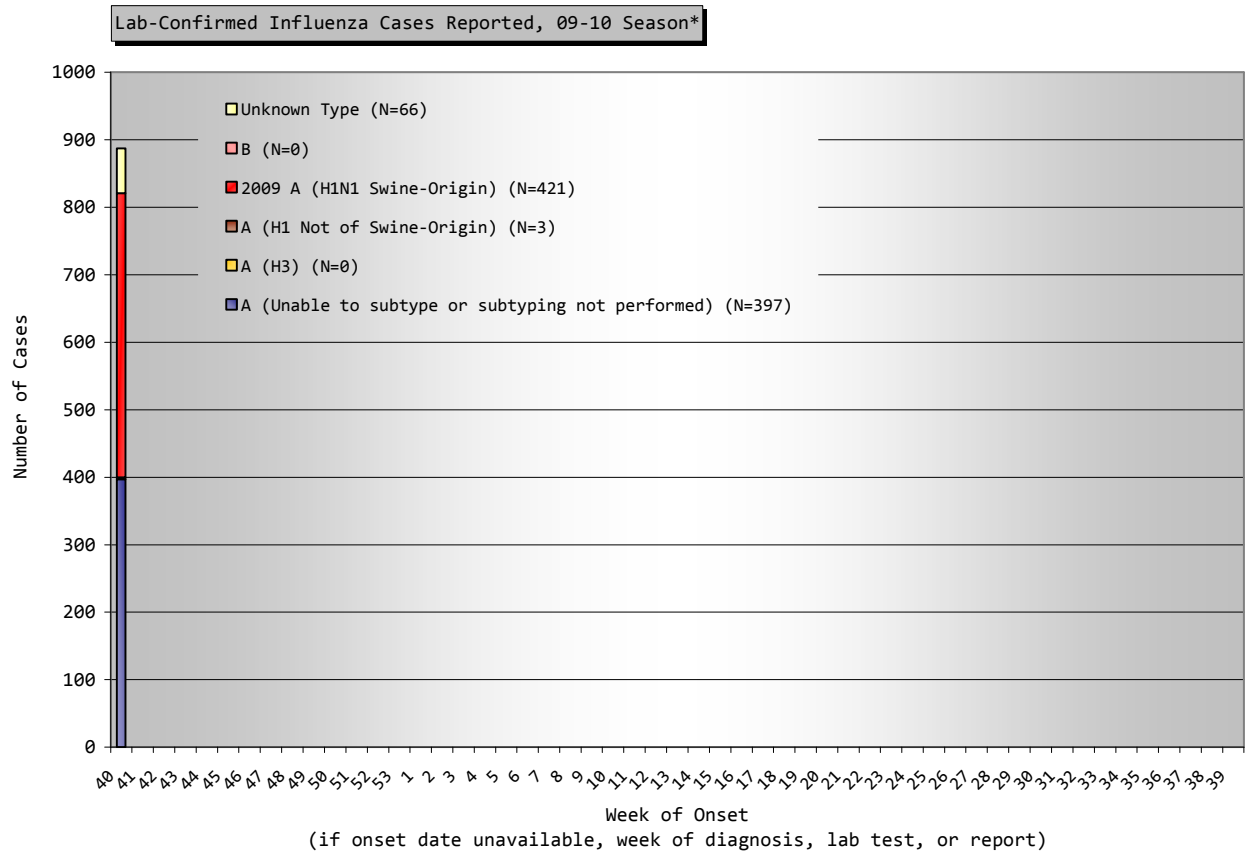
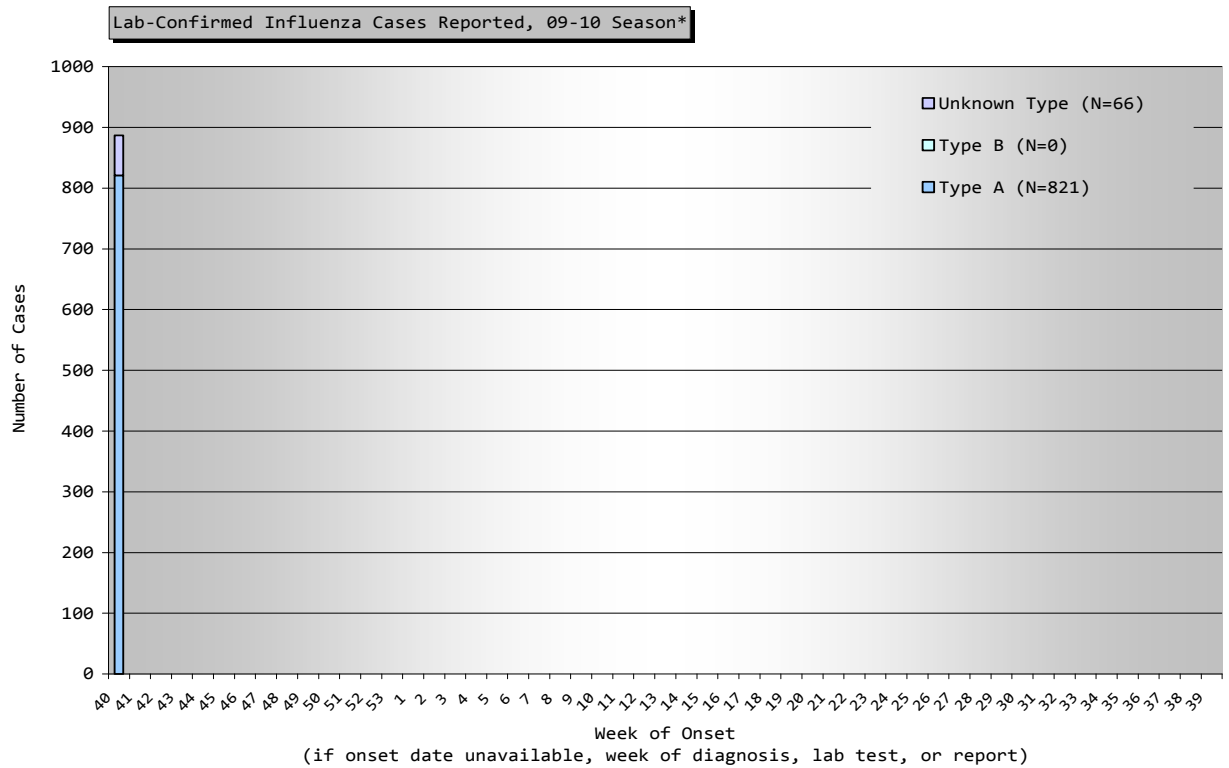


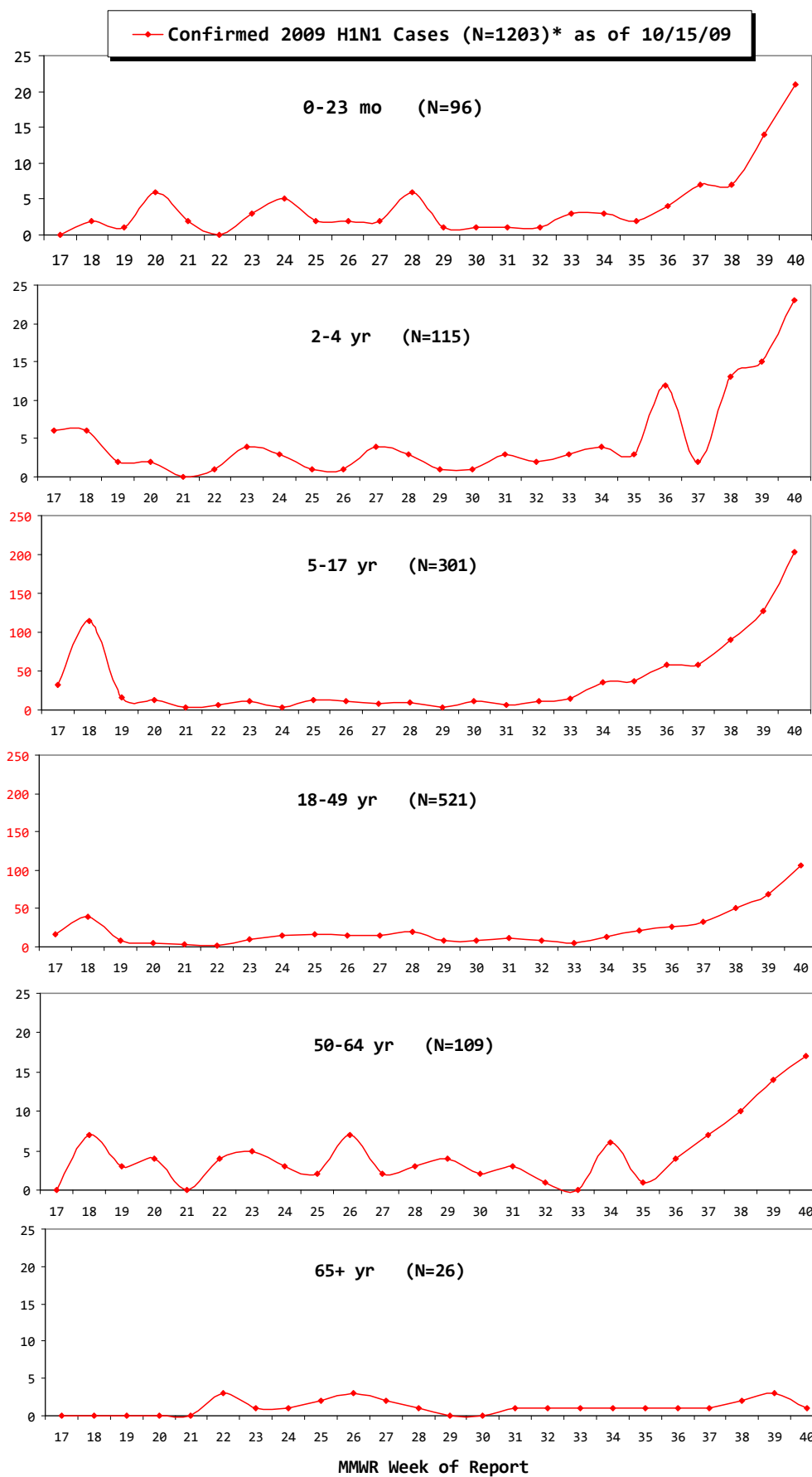
MARICOPA COUNTY INFLUENZA SUMMARY UPDATE
WEEK 40 (10/4/09-10/10/09)

- **Lab Confirmed Influenza:** 887 cases of influenza have been confirmed at the Arizona State Laboratory (Through week 40)
- **Confirmed Novel H1N1 cases by Age Group** (As of 10/15/2009)
- **Pneumonia & Influenza Mortality:** 5.76% of all deaths were due to pneumonia or influenza (Week 40) (MCDPH Office of Vital Statistics)
 - **Influenza Associated Deaths (IAD):** 40 influenza-related deaths have been reported through week 40. **(10 type-A, 3 type-B, 4 type-Unknown & 23 Novel H1N1).**
 - **Pediatric IAD:** 8 of the 37 IAD were pediatric cases. **(2 type A, 5 Type A/H1N1 & 1 type B).**
- **Influenza-Like Illness** (Through week 40)
 - **Cigna Health Centers** (n=20): 1.00% of visits due to ILI. (provisional data; subject to change as updated information becomes available)
 - **Hospital Emergency Departments** (n=17): 7.10% of visits were due to ILI.
- **Biosense:** (n=6) 1.9% of all visits were due to ILI (As of 10/16/2009)
- **Respiratory Syndromes (Biosense):** (n=6) 18.70% of all visits were due to a respiratory syndrome (As of 10/16/2009).
- **School Syndromic Surveillance:** 2.4% of students were absent during week 40. (72-school average) *Many sentinel schools observed Fall Recess between week 39 and 40.



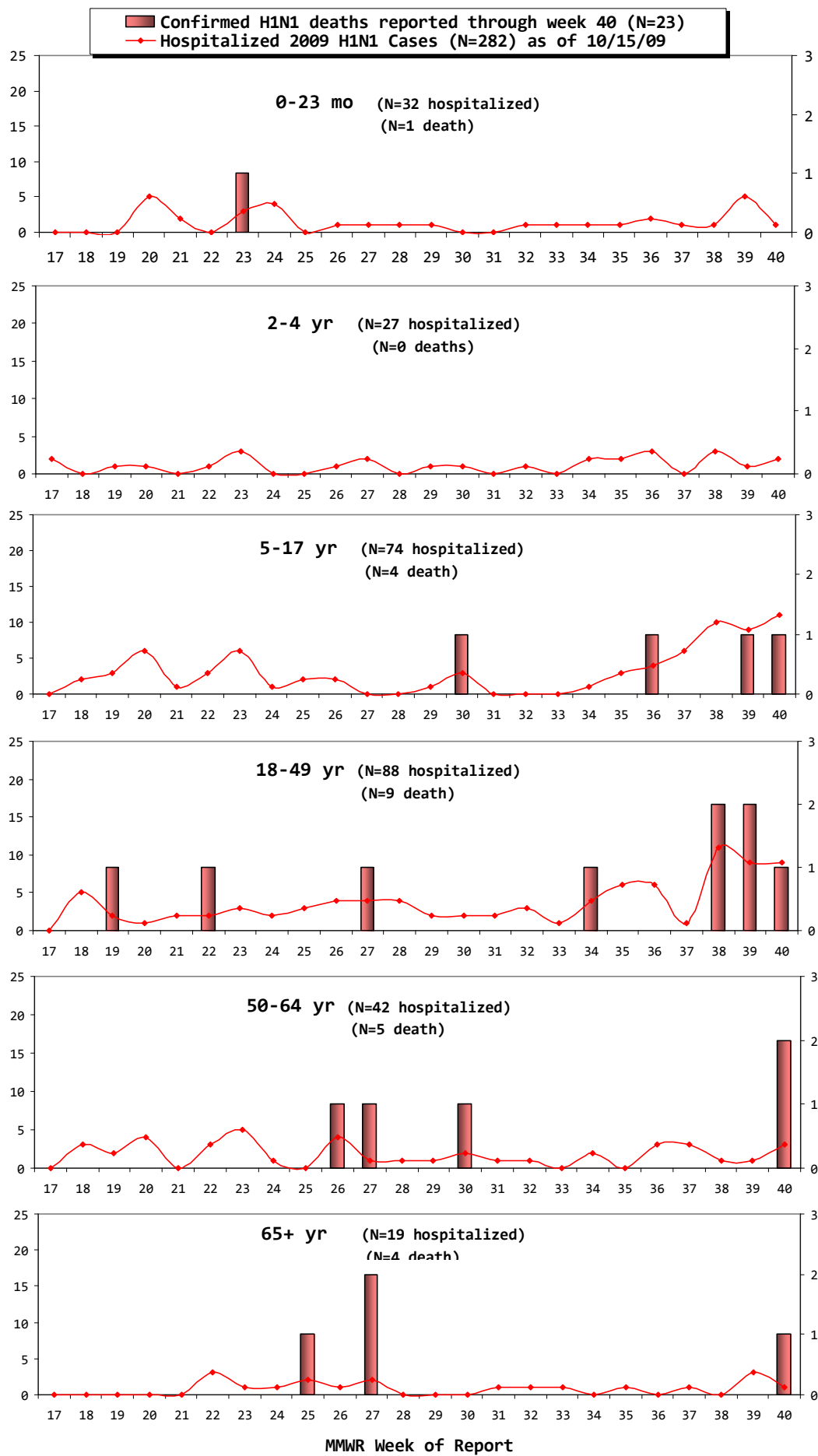


Number of Cases Reported



- Not included in this graph are 35 cases in which Age is unknown.
- Notice scale difference

Number of Cases Reported



Number of Deaths Reported

2008-2009, Age Distribution, Various Methods of Counting Seasonal Influenza-Associated Deaths

2008-2009 Seasonal Influenza	A=Influenza on DC + positive testing			B=Influenza on DC, no testing or unknown testing			C=No influenza but respiratory COD on DC + positive testing			D=Influenza on DC + negative culture/PCR			E=Pending DC + positive testing			TOTALS		
Influenza Type	A	B	Unk	A	B	Unk	A	B	Unk	A	B	Unk	A	B	Unk	A	B	Unk
Under 5	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0
5-19	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
20-64	1	1	0	1	0	1	1	0	0	1	0	0	0	0	0	4	1	1
65 and older	1	0	0	0	0	0	3	1	0	0	0	3	0	0	0	4	1	3
TOTAL	3	2	0	1	0	1	5	1	0	1	0	3	0	0	0	10	3	4

2008-2009, Age Distribution, Various Methods of Counting Novel Influenza-Associated Deaths

2008-2009 Novel H1N1 Strain	A=Influenza on DC + positive testing	B=Influenza on DC, no testing or unknown testing	C=No influenza but respiratory COD on DC + testing	D=Influenza on DC + negative culture/PCR	E=Pending DC + positive testing	TOTALS
Age Group	All Novel H1N1 Strains are Type A influenza.					
Under 5	1	0	0	0	0	1
5-19	2	0	1	0	1	4
20-64	5	0	4	0	5	14
65 and older	2	0	2	0	0	4
TOTAL	10	0	7	0	6	23

2008-2009, Confirmed Seasonal and Novel H1N1 Influenza-Associated Deaths by serotype.

Type	Seasonal Influenza*	Novel H1N1	Total
A	9	23	32
B	3		3
Unk	1		1
Total	13	23	36

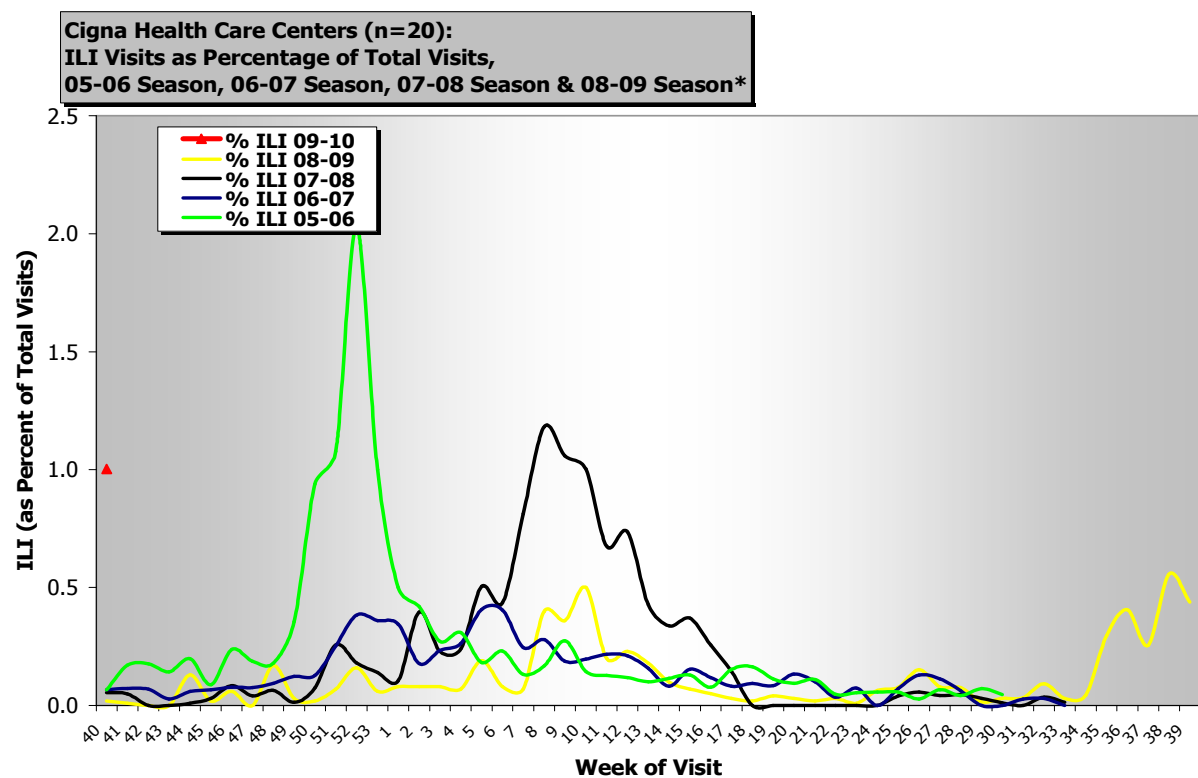
**Confirmed IAD include cases with Influenza or Respiratory causes of death + positive testing or unknown testing. Cases with positive testing and a pending death certificate are also included.*

Influenza-Like Illness (ILI)* Surveillance

*ILI case definition: fever (at least 100°F) AND cough and/or sore throat.

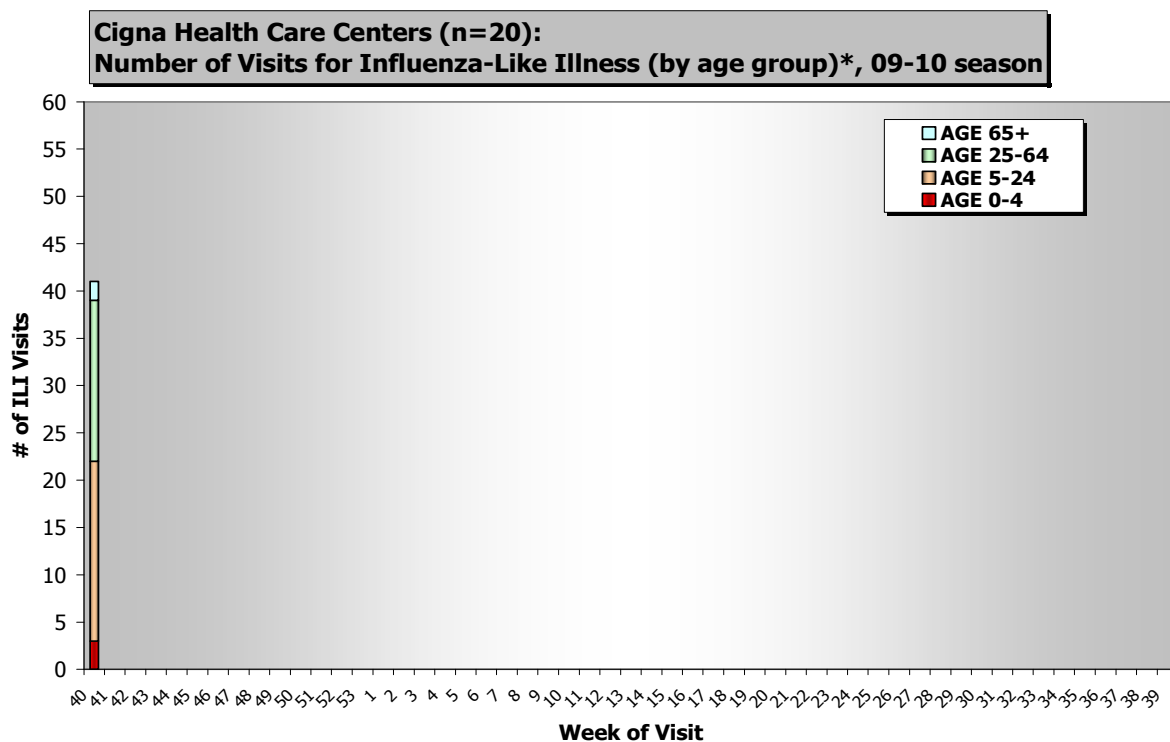
- During Week 40, 1.00% of patient visits to Cigna Health Care Centers (data from 20 centers, six departments) were due to ILI. During Week 40 of the two previous seasons, 0.02% (08-09) and 0.054% (07-08) of patient visits to Cigna Health Care Centers were due to ILI. (*Provisional data; may change in subsequent reports as updated information becomes available.)
- The percentage of ER visits for ILI (data from 17 hospitals) was 7.10% for Week 40.

Influenza-Like Illness (ILI)* Surveillance

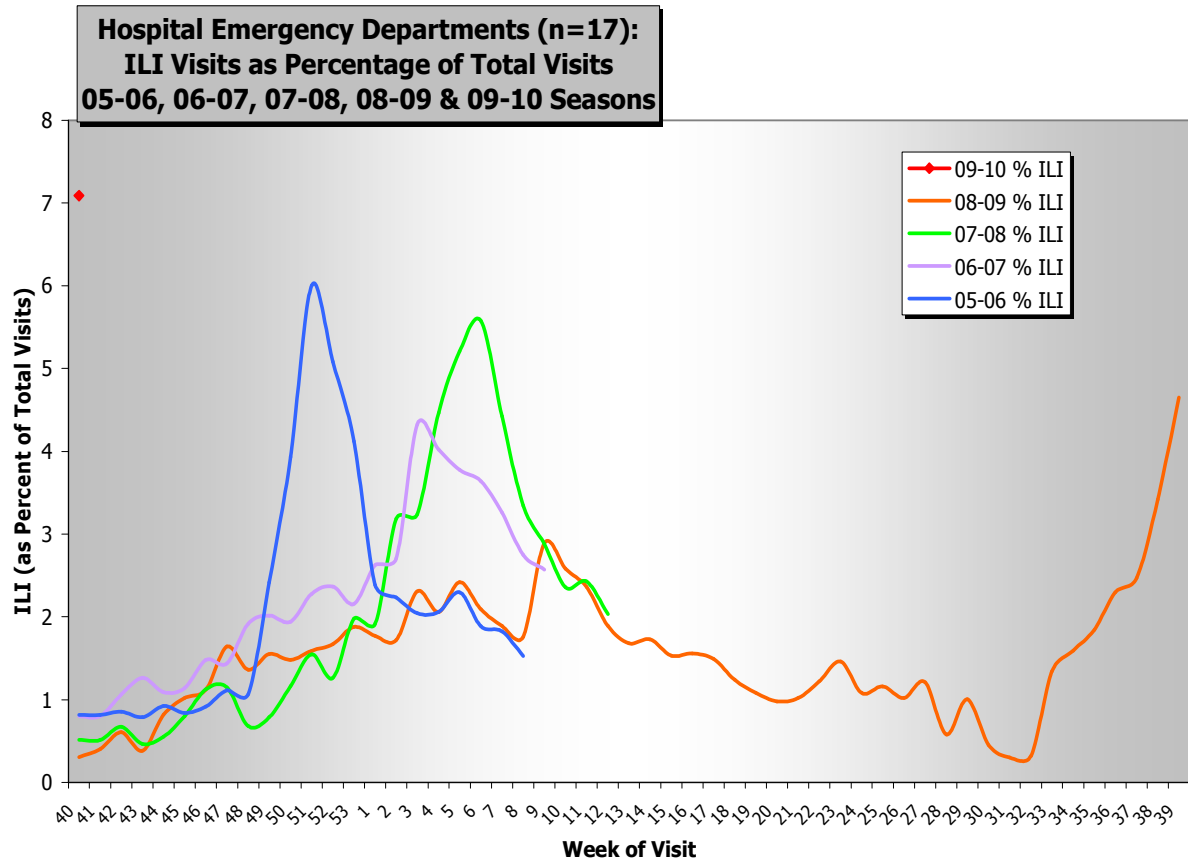


*Data for Week 40 of the 09-10 season is provisional and may change in subsequent reports as updated information becomes available.

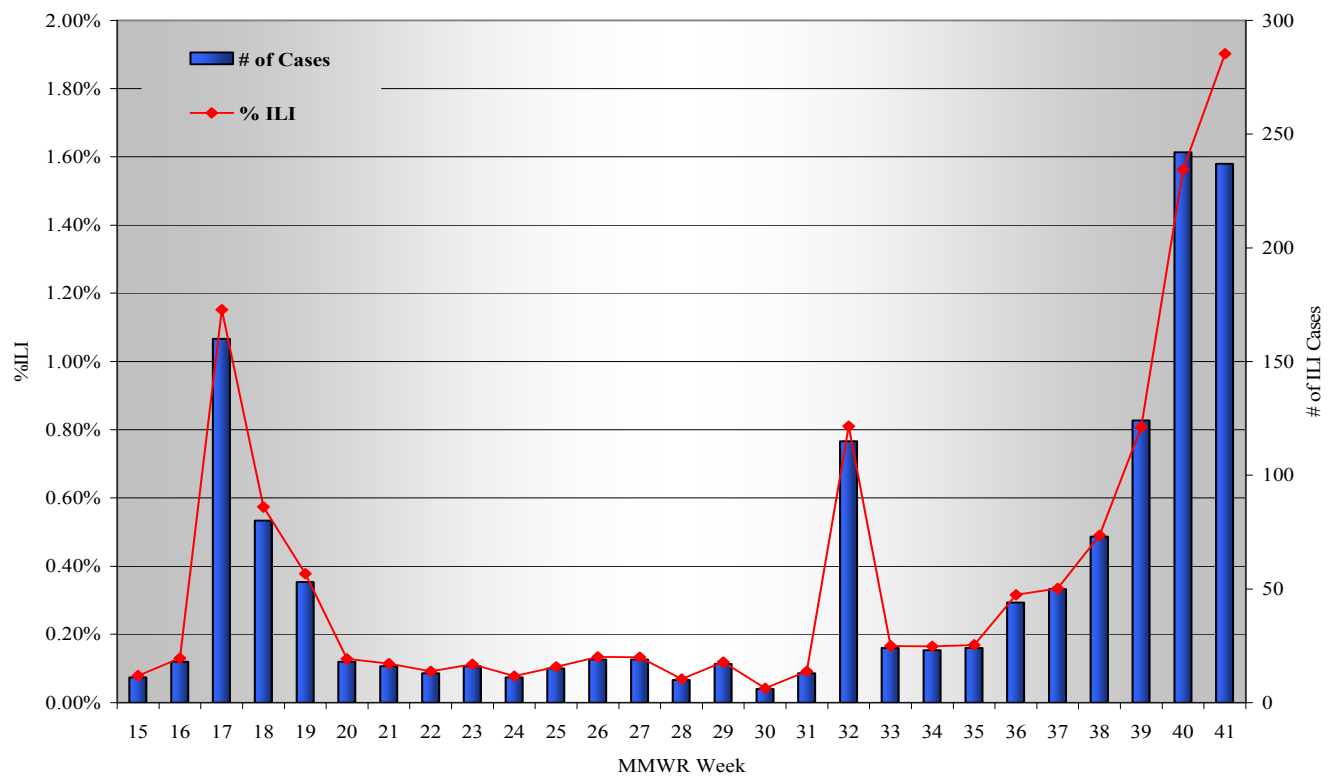
Influenza-Like Illness (ILI)* Surveillance



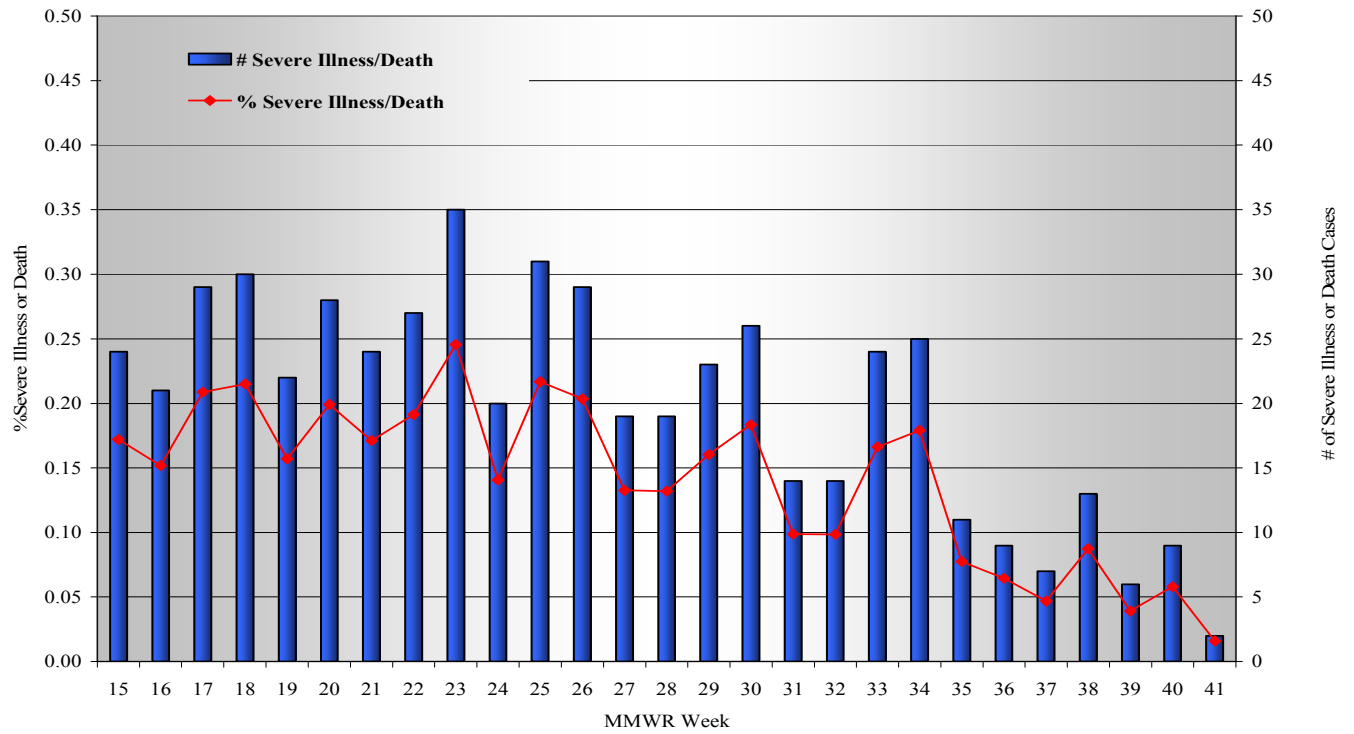
*Data for Week 40 of the 09-10 season is provisional and may change in subsequent reports as updated information becomes available.



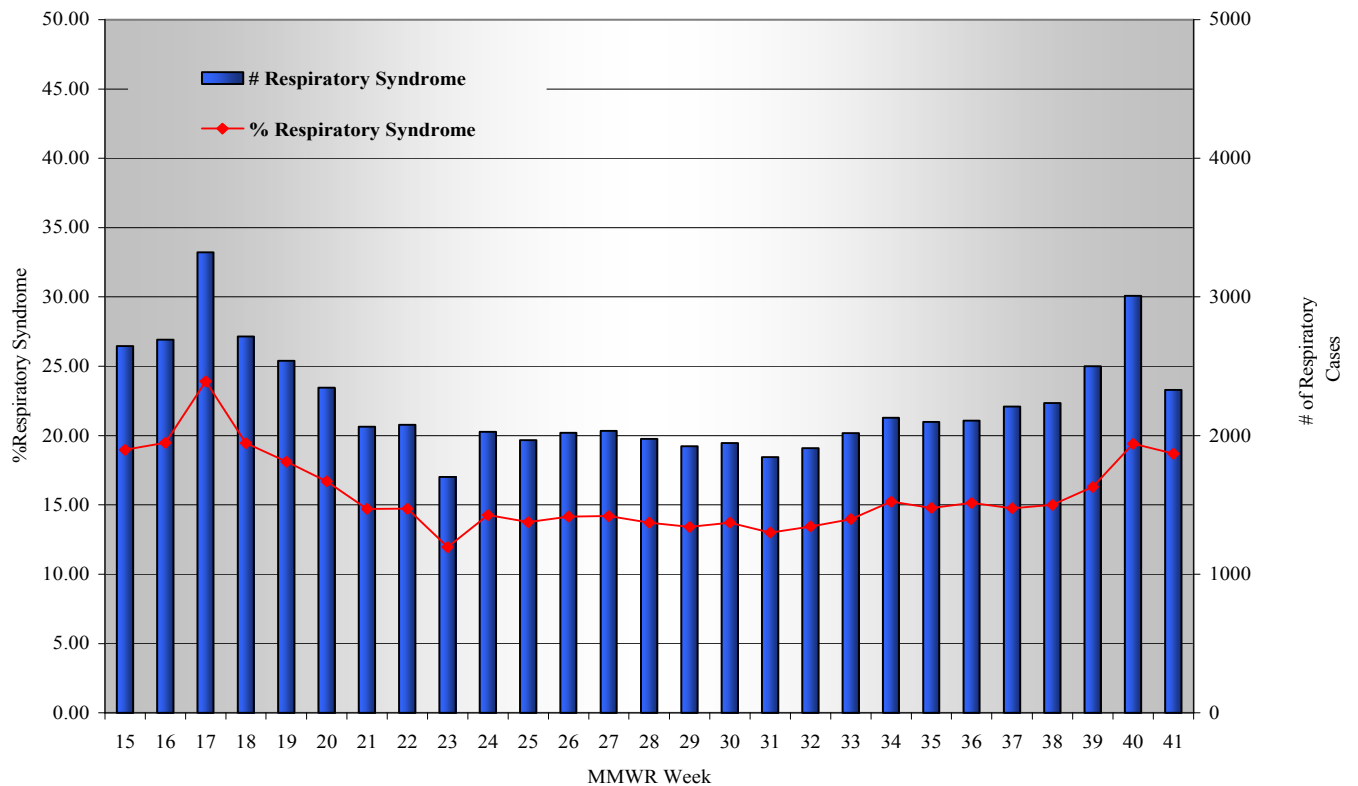
**All Biosense Facilities- Weekly ILI Surveillance
(n=6 facilities)**



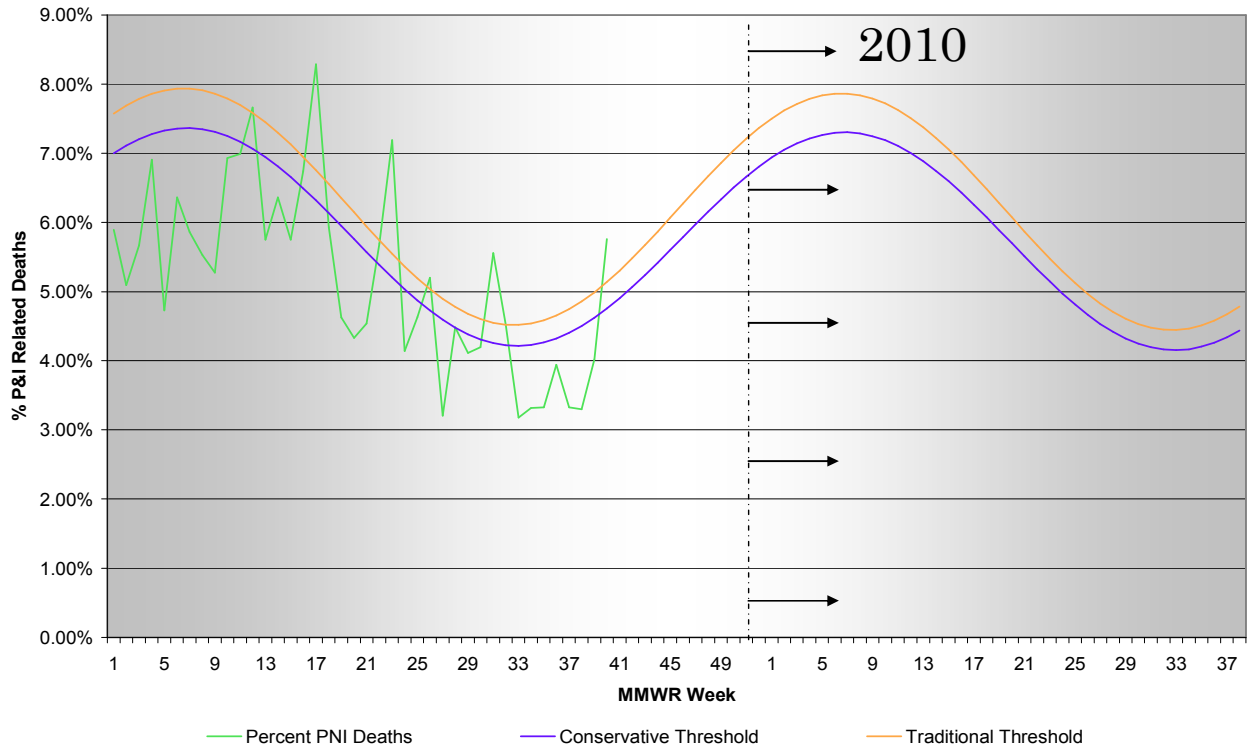
**All Biosense Facilities Daily Syndrome Surveillance: Severe Illness or Deaths
(n=6 facilities)**



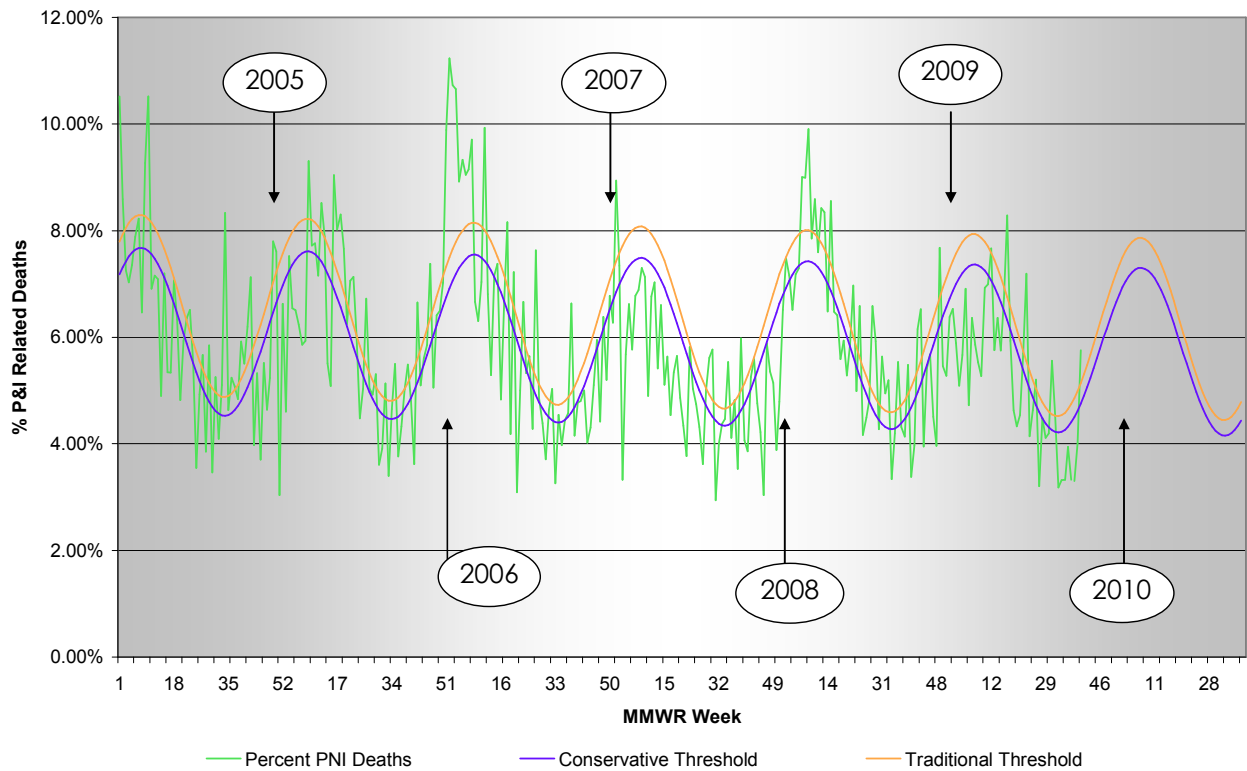
**All Biosense Facilities Daily Syndrome Surveillance: Respiratory
(n=6 facilities)**



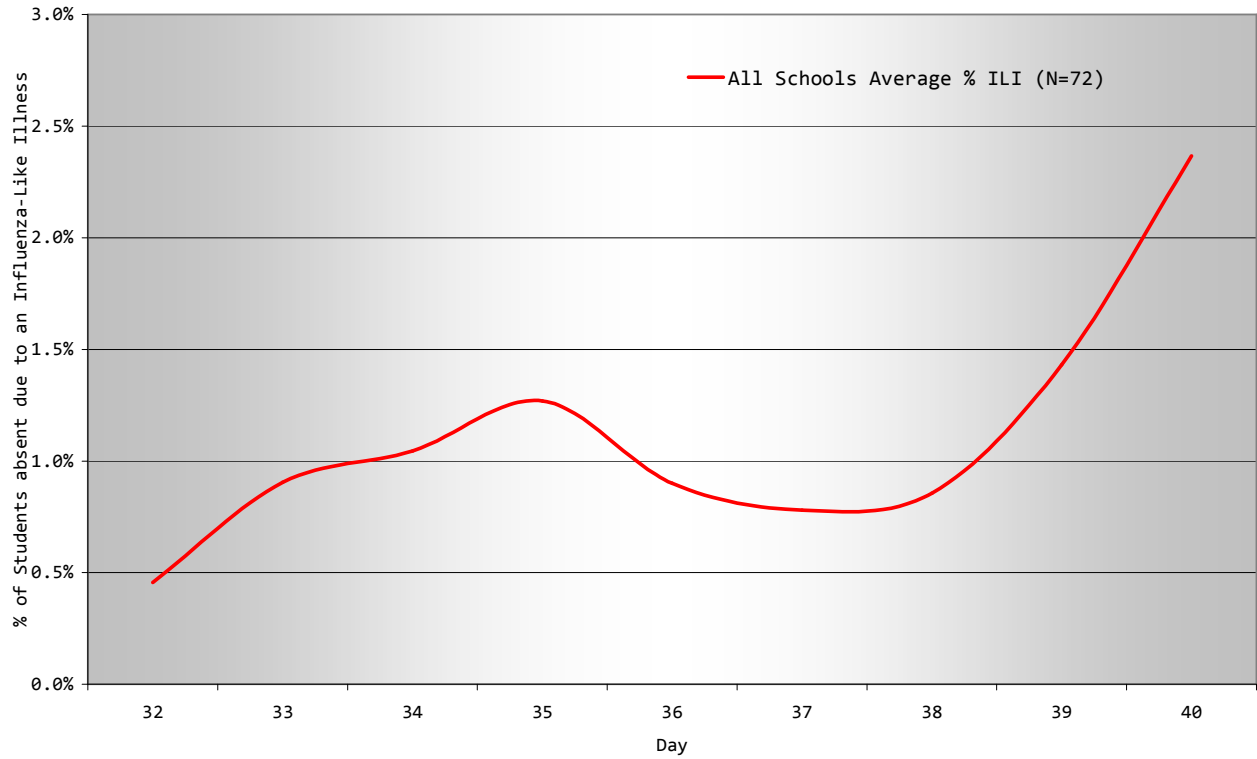
**Maricopa County 2009-2010
Pneumonia and Influenza Related Deaths**



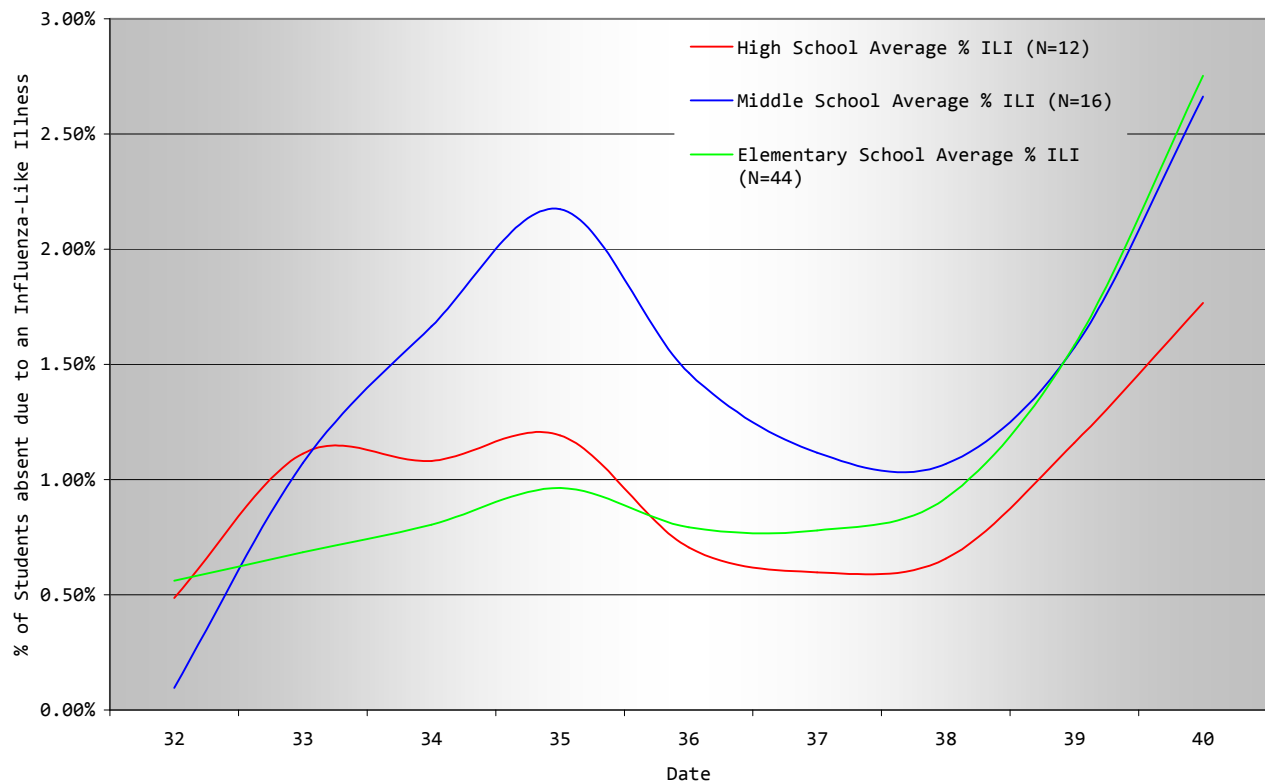
**Maricopa County 2004-2009
Pneumonia and Influenza Related Deaths**



Maricopa County 2009-2010:
School ILI Surveillance by MMWR Week (N=72 Schools)



Maricopa County 2009-2010:
School ILI Surveillance by MMWR Week and Type of School



Influenza Activity outside Maricopa County

Information on influenza activity outside Maricopa County is available at these sites:

- http://azdhs.gov/phs/oids/epi/flu/az_flu_surv.htm (Arizona Department of Health Services)
- <http://www.cdc.gov/flu/weekly/fluactivity.htm> (CDC)

Due to wide variability between national- and local-level data, it is not appropriate to apply any national baselines or thresholds to the information represented in this report.

Please email any questions about this report to: dereksteinke@mail.maricopa.gov.

Report generated: 10/16/09.

Influenza Surveillance Participants include:

Arizona Department of Health Services

Cigna Health Care Centers

Arizona State University Campus Health Services

Hospital Emergency Departments & Infection Control Practitioners

- | | | | |
|----------------------------|------------------------------------|---------------------------------|---------------------------------|
| • Banner Baywood Hospital | • Banner Del E. Webb Hospital | • St. Josephs Hospital | • Scottsdale Healthcare |
| • Banner Desert Hospital | • Arrowhead Hospital | • St. Luke's Hospital | Thompson Peak |
| • Banner Estrella Hospital | • Carl T. Hayden VA Medical Center | • Tempe St. Luke's | • Wickenburg Community Hospital |
| • Banner Gateway Hospital | • John C Lincoln North Mountain | • Scottsdale Healthcare Shea | |
| • Banner Good Samaritan | • Mayo Hospital | • Scottsdale Healthcare Osborne | |
| | • MMC | | |

Maricopa County School Partners (by District):

Deer Valley Unified

District

Desert Sky Middle

Fountain Hills Unified

District

Fountain Hills High

Fountain Hills Middle

Four Peaks Elementary

McDowell Mountain

Elementary

Gilbert Unified District

Desert Ridge High

South Valley Junior High

Glendale Elementary

District

Bicentennial North

Elementary

Bicentennial South

Elementary

Coyote Ridge Elementary

Discovery Elementary

Glendale American

Elementary

Glenn F. Burton Elementary

Horizon Elementary

Landmark Middle

Glendale Union District

Apollo High

Moon Valley High

Sunnyslope High

Littleton Elementary

District

Tres Rios Elementary

Madison Elementary

District

Madison Heights Elementary

Madison Meadows Middle

Madison No. 1 Middle

Madison Park Middle

Madison Rose Lane

Elementary

Madison Traditional Academy

Mesa Unified District

Frost Elementary

Highland Elementary

Lowell Elementary

Mesa High

Red Mountain High

Westwood High

Hendrix Junior High

Powell Junior High

Queen Creek Unified

District

Queen Creek High

Scottsdale Unified District

Chaparral High

Mountainside Middle

Sequoia Elementary

Tempe Elementary

District

Aguilar Elementary

Arredondo Elementary

Broadmor Elementary

Bustoz Elementary

Carminati Elementary

Connolly Middle

Curry Elementary

Fees Middle

Frank Elementary

Fuller Elementary

Getz Elementary

Gilliland Middle

Holdeman Elementary

Hudson Elementary

Intervention Learning

Program

Laird Elementary

McKemy Middle

Meyer Elementary

Nevitt Elementary

Rover Elementary

Scales Technology Academy

Thew Elementary

Ward Traditional Academy

Wood Elementary

Tempe Union District

Desert Vista High

Washington Elementary

District

John Jacobs Elementary

Roadrunner Elementary

Sunnyslope Elementary

Wickenburg Unified

District

Festival Foothills Elementary

Hassayampa Elementary

Vulture Peak Middle

Wickenburg High

